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9-1-1996

Wright State University College of Engineering and Computer Science Bits and PCs newsletter, Volume 12, Number 7, September 1996

Wright State University College of Engineering and Computer Science

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Wright State University College of Engineering and Computer Science (1996). *Wright State University College of Engineering and Computer Science Bits and PCs newsletter, Volume 12, Number 7, September 1996*. Dayton, Ohio: Wright State University College of Engineering and Computer Science.

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BITS & PCs

COLLEGE OF ENGINEERING AND COMPUTER SCIENCE

September 1996 Wright State University Dayton, Ohio 45435 Vol. 12 No. 7

BITS & PCs is a monthly newsletter published by the College of Engineering and Computer Science to inform students about activities, news, opportunities and changes occurring in the College. It reports on the achievements of faculty and students; changes in organization, policy and curriculum; scholarship and employment opportunities; and engineering and computer science student club activities.

The current issue of *BITS & PCs* is available on the World Wide Web at <http://www.cs.wright.edu/info/bits&pcs.html>. There are also links to past on-line issues and the College home page at <http://www.cs.wright.edu/>. Copies are also available in the College office, any department office, or the student club room. The next issue will be published the week of October 7, 1996. To submit items for this issue, call the College of Engineering and Computer Science, 405 Russ Engineering Center at 513-873-5001, or E-Mail kthis@delta.cs.wright.edu by September 23, 1996.

Gopal Mehrotra Remembered

Gopal M. Mehrotra, Ph.D. (Dr.-Ing.), age 55, passed away on July 6, 1996. Dr. Mehrotra had been a professor in the Department of Mechanical and Materials Engineering since 1985.

Dr. Mehrotra's many impressive accomplishments in education and research include receiving the 1994 Excellence in Research Award from the College of Engineering and Computer Science and a prestigious Summer Faculty Fellowship to NASA/ASEE also in 1994.



Dr. Mehrotra was very active in both University and College governance, serving willingly on many committees throughout his years at WSU. In addition to his university commitments, Dr. Mehrotra was also active in The Metallurgical Society of AIME, The American Ceramic Society, and The Electrochemical Society and served as a reviewer for many professional journals.

Prior to joining Wright State University, Dr. Mehrotra had been a visiting lecturer at the University of Arizona at Tucson and held

Continued on Page 3

Make a Difference—Get Involved!

The best way to get the most out of your college experience is to get involved with extra-curricular activities. Engineering and Computer Science students have an opportunity to become active in the decisions that affect the College of Engineering and Computer Science by serving as student representatives on College committees.

If you are interested in serving on one of the following committees, contact the Student Government Representative

Euvondia Barto in the Alumni Student Club Center, 163 Russ Center, 873-5031, or e-mail: s015emb@discover.wright.edu.

- ❖ Academic Computing Committee
- ❖ Academic Mediations Committee
- ❖ Curriculum Committee
- ❖ Petitions Committee
- ❖ Graduate Studies Committee
- ❖ Scholarship Committee
- ❖ Ad-Hoc Teaching Award Committee

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EMPLOYMENT OPPORTUNITIES

Process Equipment Company has a part-time computer software and hardware support position available (approximately 4-8 hours per day, Monday - Friday). Candidates should have experience with Microsoft Office Professional software and troubleshooting hardware failures. Knowledge of AutoCad and Network skills would be a plus.

Interested applicants should mail or fax a brief letter outlining their skills, experience, and potential work schedule to:

Basil P. Zabek
Design-Engineering-Assembly
Process Equipment Company
4191 U.S. Route 40
Tipp City, OH 45371
Phone: 513-667-7105
FAX: 513-667-2591

Collins & Associates Executive Search is looking for two Product Development Engineers and one Senior Product Development Engineer to work in a rapidly growing company.

Duties would include working with customers from concept to completion of new products and engineering changes to existing products (print approval, prototyping, testing, final approval, and plant run-offs). Good communication skills are required and 1-5 years experience are desired. Interested individuals should contact:

Collins & Associates
10188 West "H" Avenue
Kalamazoo, MI 49009
Phone: 616-372-3275/800-753-0186
FAX: 616-372-3921

Macaulay Brown, Inc. is looking for several key individuals to fill the following positions:

Systems Analysts for IRCM/
Missile Warning and IR
Countermeasures Concepts

Simulation/Modeling Engineers/
Analysts for mission level models
such as SUPPRESSOR or EADSIM

Principle Investigator of Avionics
Systems to lead studies and
analysis efforts related to avionics
modifications

Systems Analyst with background
in UNIX administration, Digital
UNIX, OSF/Motif, OPEN LOOK,
SUN Workstation/SPARC 20,
Solaris, and networking concepts

Electronic Technicians with
experience in Radar and Electronic
Countermeasures development
and testing

Engineer to develop and test
advanced RF countermeasures in a
USAF anechoic chamber test
facility

Principle Investigator to provide
leadership for a highly technical
group in the design and analysis of
radar missile systems

Senior Engineer to perform system
and component level analysis of
EW systems.

Brief job descriptions are available
in the Office of the Dean, 405 Russ
Engineering Center. Interested
individuals should send a résumé
indicating position and salary
requirements in confidence to:

Ken Simon, Macaulay Brown, Inc.
3915 Germany Lane
Dayton, OH 45431
FAX (513) 426-5364
E-Mail kesimon@macb.com.

Ty D. Upp says.

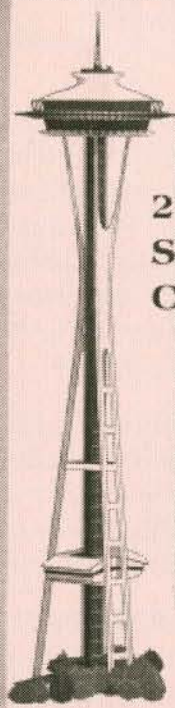
In an attempt to keep the Russ Engineering Center looking neat and new, the administration enforces a strict "No Posting" policy. This means that no flyers, bulletins, or notes of any kind may be affixed to the walls, doors, or windows in the building.

There are several display cases located throughout the building. Anyone wishing to display a flyer or bulletin should contact the Dean's Office, 405 Russ, 873-5001 for information about using these display cases.

Remember....No Posting on
the walls and doors in the
Russ Center!



Ty D. Upp is a regular feature in BITs & PCs. Faculty, staff, and students are welcome to submit prospective topics for Ty D. to address in this column. Just contact kthis@delta.cs.wright.edu or stop by the Dean's Office at 405 Russ to submit your suggestions.



Preliminary Program

28th International SAMPE Technical Conference

Technology
Transfer in
a Global
Community



November 4-7, 1996
Seattle, Washington
Sponsored by the Seattle SAMPE Chapter

More information and application materials may be obtained in the Office of the Dean, 405 Russ Engineering Center.

Mehrotra Continued

research positions at Arizona State University at Tempe and University of Pennsylvania at Philadelphia.

Dr. Mehrotra is survived by his wife, Pramila, and two sons, Vikas and Sanjeev. He took great pride in his sons' accomplishments as they were growing up.

Many of the faculty, staff, and students of the College of Engineering and Computer Science will remember Dr. Mehrotra as a patient, quiet, unassuming man who showed concern, compassion, and understanding. To many in this College he was more than an educator, scholar, and researcher. He was also a gentleman and a friend and will be greatly missed.

BHE Students Win Design Award

For the second year in a row, a team of students from Wright State University have won the Whitaker Senior Design Award. This award will be presented at the Biomedical Engineering Society Annual Fall Meeting being held at Penn State University on October 3-6, 1996.

The team consisted of Angela Slaughter, Jeanne Uy, Joe Katuin, and Donna Therrien—all of whom

graduated in June 1996 from the biomedical engineering program. Their winning paper was entitled "Prosthetic Robotic Hand with Electric Motors and Force/Position Sensors." Faculty advisors for this design team were David Reynolds (BHE) and Kuldip Rattan (EE).

Congratulations!

AAUW Selected Professions Fellowships

The American Association of University Women will be awarding Selected Professions Fellowships in designated fields where women's participation has been low. Approximately \$350,000 was awarded for the 1996-97 academic year and it is expected that the same level will be awarded for the 1997-98 academic year.

Science and Technology Fellowships are awarded to

women in master's degree programs in architecture, math, statistics, engineering, and computer science. Dissertation fellowships are also available in engineering.

The earliest application deadline is November 15, 1996. More information and application materials may be obtained in the Office of the Dean, 405 Russ Engineering Center.



Fritz and Dolores Russ
Engineering Center

Bits & PCs

College of Engineering and
Computer Science
Wright State University

Dean

James E. Brandeberry, Ph.D., P.E.

Editor and Staff Writer

Karil S. This

Submit questions, articles and ideas to Editor, 405 Russ Engineering Center. The College of Engineering and Computer Science reserves the right to edit all material for publication.

FACULTY FACTS

A.A.S. Awwal, Ph.D. (CSE), has coauthored a paper entitled "Electro-optical Displays for Optical Information Processing" in *IEEE*, Vol. 84, No. 6, June 1996, pp. 814-827. >

Ardeshir Goshtasby, Ph.D. (CSE), received funding in the amount of \$30,750 from Ohio Aerospace Institute for his proposal entitled "Computer Assisted Minimally Invasive Surgery." >

Ardeshir Goshtasby, Ph.D. (CSE), received additional funding in the amount of \$5,000 from the National Science Foundation for his proposal entitled "Picture Retrieval System." >

Ping He, Ph.D. (BHE), and Kefu Xue, Ph.D. (EE) have published a paper entitled "A PC-Based Ultrasonic Data Acquisition System for Computer-Aided Prosthetic Socket Design" in *IEEE Transactions on Rehabilitation Engineering*, Vol. 4, No. 2, June 1996, pp. 114-119. >

Shane Hong, Ph.D. (ME), received funding in the amount of \$25,000 from Air Products and Chemicals, Inc. for his proposal entitled "Cryogenic Machining." >

Shane Hong, Ph.D. (ME), received funding in the amount of \$32,500 from Air Products and Chemicals, Inc. for his proposal entitled "High Efficiency Deep Grinding." >

Marian Kazimierczuk, Ph.D. (EE), received additional funding in the amount of \$4,000 from UES, Inc. for his proposal entitled "SIC Power Semiconductor Devices." >

Prabhaker Mateti, Ph.D. (CSE), received funding in the amount of \$4,135 from Chemineer, Inc. for his proposal entitled "Integration of Software Tools." >

William McCormick, Ph.D. (EE), received additional funding in the amount of \$2,925 from Systems Research Laboratory for his proposal entitled "Signal Processing Research." >

Krishna Naishadham, Ph.D. (EE), received funding in the amount of \$20,000 from USAF: Wright Laboratory for his proposal entitled "Automatic Target Recognition." >

Krishna Naishadham, Ph.D. (EE), has been invited to be the Associate Editor of International Journal of Microwave and Millimeter-Wave Computer Aided Engineering and is also serving on the Editorial Board of *IEEE Transactions on Microwave Theory and Techniques*. Associate Editorships to these prestigious journals are very selectively offered to individuals based on their technical contributions. >

S. Narayanan, Ph.D., P.E. (BHE), presented a tutorial entitled "Education and Research Issues in Human Computer Interaction" at the Association of Computer and Information Science and Engineering Departments at minority Institutions Symposium at the University of Puerto Rico, Mayaguez on July 25, 1996. >

S. Narayanan, Ph.D., P.E. (BHE), and Jennie Gallimore, Ph.D. (BHE), have published a paper entitled "Computer-Based Aiding for Pruning Search Space in Manufacturing Planning" in the proceedings of the Fifth International Conference on Human Aspects of Advanced Manufacturing: Agility and Hybrid Automation, August 6-9, 1996, Maui, Hawaii. >

T.K. Prasad, Ph.D. (CSE), moderated the session "Formal Methods and Software Tools" at NAECON-96 and also coauthored a paper with R. Eastham entitled "Proof Strategies for Hardware Verification" in *NAECON-96*, Vol. 2, pp. 451-458. >

David Reynolds, Ph.D. (BHE), received funding in the amount of \$10,612 from Richard S. Bachtell, M.S. for his proposal "X-ray Study of Middle Phalangeal Bones." >

Mateen Rizki, Ph.D. (CSE), received funding in the amount of \$25,000 from Research and Development Laboratories for his proposal entitled "Hybrid Evolutionary Learning System." >

Blair Rowley, Ph.D. (BHE), received funding in the amount of \$250 from the Montgomery County Board of Mental Retardation and Developmental Disabilities for his proposal entitled "Rehabilitation Engineering Design I." >

Joseph Slater, Ph.D. (ME), has published a paper entitled "A Numerical Method for Determining Nonlinear Normal Modes" in *Nonlinear Dynamics*, Vol. 10, No. 1, May 1996, pp. 19-30. >

Thomas Sudkamp, Ph.D. (CSE), received funding in the amount of \$50,000 from U.S. Army Research Laboratory for his proposal entitled "Adaptability and Rule Based Completion in Fuzzy Models." >

Karen Tomko, Ph.D. (CSE), presented a paper entitled "Profile Driven Weighted Decomposition" at the International Conference on Supercomputing, May 20-28, 1996 in Philadelphia. >

ATTENTION!!

Students - Faculty - Staff

The College of Engineering and
Computer Science Welcomes YOU
to the 1996-97 School Year!

WELCOME BACK RECEPTION

Thursday, September 19
Lobby of the Russ Engineering Center
1:30 - 2:30 P.M.

Games
Prizes
Refreshments
Continuous door prize drawing

Dean's List—Spring Quarter 1996

Biomedical Engineering

Michael C. Bristow
Gregory R. Dawson
Anthony J. Ewald
J. Matthew Freyhof
Amy L. Judy
Jill M. Leighner
Josh A. Noble
Goran Petrovski
Dax B. Pitts
Angelo M. Ripepi
Brian L. Ruhe
Stephanie R. Ryberg
Everett P. Schaefer
Susanna L. Seitz
Jason T. Shearn
Angela K. Slaughter
Jeanne L. Uy
Brian M. Vickers

Computer Engineering

Euvondia M. Barto
Matt K. Fox
Michael A. Pratt
Brian J. Stocker

Computer Science

Aaron M. Andrew
Patrick C. Arnold
Ty W. Hayden
Douglas J. Henry
Eric W. Hysong
Jason J. Kraus
Ryan W. Owens
Douglas B. Post
Jeff T. Waltke

Electrical Engineering

Ryan S. Blume
David R. Butler
Shawn R. Davidson
Marc E. Davis-Marsh
Kimberly A. Doepker
Daniel J. Dresher
Michael L. Ellenwood
Gordon L. Fenton
Dominique C. Figiel
Jennifer A. Foley
Ethan A. Frazier
Chad E. Gaier
Brent J. Grothaus
David C. Hanna
Matthew L. Hiatt

Mohammad S. Hussain
Anna Kazimierczuk
Kurt D. Keener
Theodore A. Knapke
Garrick W. Kolb
Nicole A. Kolb
Bradley J. Miller
Kouhyar Mostashfi
Tom J. Musick
Deric E. Newland
Coihoa T. Nguyen
Charles J. Peck
Germaine A. Potter
Eric J. Powers
Geeta Pujara
Brett D. Smith
John C. Stewart
Dean C. Wardell
Brian M. Werst
Michael R. Whaley

Engineering Physics

Cornelius Brinegar
Gregg H. Jessen
Dennis E. Walker Jr.

Human Factors Engineering

William D. Bailey
George H. S. Baldwin
Gilbert E. Bandy
Joshua R. Egbert
Matthew D. Garay
P. Joseph Gilkerson
Michelle A. Heider
George E. Ketelsen
Kenneth W. Maynard
Heath T. Morton
Kristy A. Robeson
Heath A. Ruff
Amy M. Schmackers
Amy L. Smith
Sydney E. Weikert
Marcus T. Whitehead

Materials Science & Engineering

Robert M. Fecke
Michael A. Jackson

Mechanical Engineering

Robert C. Ball
Bradley E. Bernard
Robert P. Cassoni

David S. Clark
Tracy J. Criswell
Ilya V. Dashevsky
Michael A. Dobran
Dale A. Evans
Sean C. Friedmann
John R. Hedke
Craig E. Hill
Paul J. Kennedy
Kevin T. Krejny
Kevin T. Krieg
Robert L. Muhlenkamp
Todd J. Myers
Kyle E. Neff
Christopher M. Penick
Yvonne M. Pribyl
Steven D. Procnuniar
Steven P. Ray
Jamsheed Reshad
Samuel H. Rizzotte III
Brian T. Roscoe
Michael J. Shepard
Robin G. Steininger
Richard N. Taylor
Cyle J. Ward
Michael R. Whaley
Brian K. Wilhelm
Melissa S. Young

Pre-Computer Engineering

Steven D. Brown
Jeffrey Cowgill, Jr.
Dung Q. Pham
Jay D. Requarth

Pre-Computer Science

David M. Abel
Sam J. Huwer
Jon S. Knapp
Aleksey G. Lashchuk
Marcella S. McDade
Keith E. Naas

Pre-Electrical Engineering

Christopher J. Eilerman
David F. Hines
Brian W. Iles
Matthew E. Nelms
Phong H. Nguyen
Gregory A. Potts
Michael D. Updike

Pre-Mechanical Engineering

Matthew D. Lange

Where Oh Where Can My Newsletter be Found.... Oh Where Oh Where Can It Be?!?!?

The answer is....wherever **you** want it to be!

In the past, monthly issues of *BITs & PCs* have been distributed to each department office, literature racks in the Russ Engineering Center lobby, students in their Allyn Hall Mailbox, and also published on the Internet (this will occur in a more timely fashion as I become more adept at "webmastering"). As editor of *BITs & PCs*, I'm wondering "Are you *really* getting the newsletter and, if so, *where*?"

Many times, a trip through the Allyn Hall Student Mailroom has revealed numerous mailboxes filled to overflowing with weeks and weeks (possibly even months and months) worth of mail. If students aren't retrieving the newsletter from their mailboxes, then we are wasting time and money sending them there. So, I want to make sure that you are receiving *BITs & PCs* in a convenient manner. I would also like to make sure that the newsletter is meeting your needs. Therefore, I would greatly appreciate it if you would take a moment to complete the survey below and return it to 405 Russ Engineering Center. (If you come by when we're not open, just drop your survey in the Suggestion Box located just to the right of our door.)

Please check the appropriate responses:

- ☐ I never go to my Allyn Hall Mailbox.
- ☐ I usually get my copy of *BITs & PCs* from my Allyn Hall Mailbox.
- ☐ I usually get my copy of *BITs & PCs* from the department office.
- ☐ I usually get my copy of *BITs & PCs* from literature racks.
- ☐ I usually read *BITs & PCs* on the Internet.
- ☐ I would like to be able to get my copy of *BITs & PCs* from the Study Lounge.
- ☐ I would most like to receive *BITs & PCs* _____.

I would like to suggest the following as a regular feature in *BITs & PCs*

I would like to see more articles or information in *BIT's & PCs* about

ATTENTION HIGH SCHOOL STUDENTS

Visit the Russ Engineering Center

A Showcase of Modern Technology for Academic Study!

The \$20 million **Fritz and Dolores Russ Engineering Center** located on the campus of Wright State University opened in 1992 and features state-of-the-art laboratory and teaching facilities for the College of Engineering and Computer Science.

◆ **WSU Fall Visitation Days**

Saturday, November 2, 1996 & Saturday, November 16 — 10:00 A.M. - 1:00 P.M.

Tour our campus and the Russ Engineering Center.

Find out about admissions, financial aid, and cooperative education.

◆ **National Engineering Aptitude Search+ (NEAS+)**

October 23, November 14, December 10 — 9:00 - 11:00 A.M.

Guidance-oriented self-assessment survey to help students in grades 9 through 12 determine their aptitude for engineering, math, or science study in college.

Pre-registration fee of \$5 required.

Optional question and answer session for parents available during the test.

Optional Russ Engineering Center and WSU Campus tours available after the test.

◆ **Shadowing Program**

October through May

Spend a day on campus with an engineering or computer science student.

Call Dick Rathbun, Assistant Dean, 513/873-5001 for more information or a personal tour of the Russ Engineering Center.



Wright State University

College of Engineering and Computer Science

3640 Colonel Glenn Hwy.

Dayton, Ohio 45435-0001

Office of the Dean